

projectiondesign as
professional projectors

DLP[®] technology
24 / 7 operation
Up to 5 years warranty
RealColor[™] technology



high performance projectors

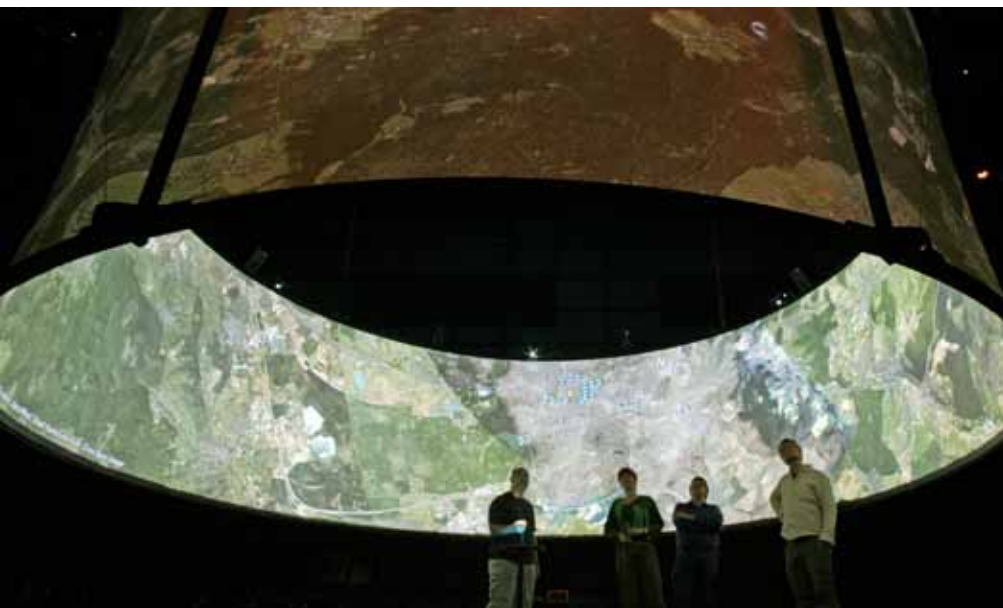
projectiondesign is located in Fredrikstad, Norway, a center in the projection industry since the mid 80's. We are dedicated to designing, manufacturing and marketing a wide range of high performance projectors for various challenging applications. The entire range of products is specially conceived to offer a better price to performance ratio than any competing offering in our target markets. The dedicated staffs of experienced scientists and engineers have life long experience in complete electronic, optical, mechanical and system design of high performance projectors. The approach to integrated product design and manufacture in house assures the best attention to detail and quality. All products are designed in close cooperation with our customers in order to assure the best functionality according to the actual requirements.

philosophy

projectiondesign designs and manufactures high performance projectors for professional and residential applications. Our products are used in high profile installations where performance and reliability are key aspects of the presentation, and we understand the impact a high performance display solution makes in business decisions and demanding applications. In order to meet our clients' requirements, projectiondesign always seeks to offer the best possible performance for any single installation by providing the best possible fit for any one product. This must be seen in relation to the rapid development of display technologies over the past few years and decades. We seek to offer users of our products the benefit of this change for the better at a minimal cost. All projectiondesign projectors are built to order. By doing so, we guarantee that the latest software and hardware will be in any one product shipped, reducing the risk of receiving a projector that has been sitting on a shelf for months, where new projectors in the same model range ultimately have had upgrades to its performance in the mean time.

achievements

Since projectiondesign was founded in 2001, we have achieved a tremendous amount of industry firsts. Our first ever product was the F1 SXGA, a product that shook the entire AV industry. The brightest single chip DLP projector ever at the time, it was also the first to use the high resolution SXGA (1280 x 1024) DMD™ (Digital Micromirror Device™). It was unmatched in the market for more than three years, where a competing product appeared with a similar specification. At InfoComm 2003, we again showed the brightest ever single chip DLP projector, at 4500 ansi lumens, also using the SXGA chip. This was followed by our introduction of the F1+ SXGA+, the first projector in the market to utilise DLP technology with SXGA+ (1400 x 1050) resolution. 2005 saw our starting to ship the professional F3 series, the brightest single chip DLP projector ever mass produced at the time, and a technology showcase where we showcased a single chip SXGA+ DLP projector featuring 10 000 ansi lumens – showcasing CPL™ lamp technology in cooperation with Philips. At CEDIA US, September 2005, projectiondesign was the first company ever to showcase and promote the new 0.95" 1080p DLP technology, with native 1920 x 1080 resolution, in the Action! model three 1080. In 2008, the revolutionary F10 AS3D made its way to the market. A complete rethinking of active 3D stereoscopic imaging, it is revolutionary in every way, from the small size, to compatibility, to performance. Our 2009 professional product offering further includes the smallest ever professional SXGA+ projector, the F22 sx+ series, the smallest available 1080p and WUXGA (1920 x 1200) resolution DLP projectors in the F12 series, as well our first 3-chip DLP projectors in the F80 series, and our best selling F32 series of professional single chip projectors.



Six projectiondesign F20 sx+ projectors create an 8m wide 360° High Definition display by the ZKM Institute for Visual Media in Karlsruhe, Germany.

professional series



F22 sx+



F22 1080

model

description

technology	single chip DLP® technology with BrilliantColor™	single chip DLP® technology with BrilliantColor™
concept	small size professional projector with lens shift	small size professional projector with lens shift
resolution (native)	1400 x 1050	1920 x 1080
input resolution (max)	1920 x 1200	1920 x 1200
aspect ratio	4 : 3	16 : 9
colour wheel options	VizSim / Graphics / High Brightness	VizSim / Graphics / High Brightness
Advanced Optical Color Processing filter sets	–	–
brightness (ansi lumens)	1600 / 2100 / 3000	1400 / 2000 / 2700
passive INFITEC 3D Stereo option (for VizSim colour wheel option only)	yes	tba.
contrast ratio	up to 2500 : 1	up to 2500 : 1

optics, lenses, and lamps

ultra wide angle lens	0.80 : 1	0.74 : 1
wide angle lens	1.00 : 1	0.92 : 1
wide angle zoom lens	–	–
standard zoom lens	1.73 - 2.39 : 1	1.60 - 2.21 : 1
short tele zoom lens	2.50 - 3.90 : 1	2.70 - 4.20 : 1
long tele zoom lens	–	–
lens operation	manual zoom and focus, vertical lens shift	manual zoom and focus, vertical lens shift
lens shift / offset	vertical: 10 - 110% with zoom lenses 0 - 80% with wide angle lenses	vertical: 0 - 110% with zoom lenses 0 - 80% with wide angle lenses
lamp options	220W VIDI UHP™	220W VIDI UHP™
lamp life full power / eco (typical)	2250 / 3000 hrs	2250 / 3000 hrs

inputs and connectors

computer connectivity	HDMI 1.3, DVI-I, VGA	HDMI 1.3, DVI-I, VGA
video connectivity	HDMI 1.3, component, S-video, composite	HDMI 1.3, component, S-video, composite
control	TCP/IP , RS232, 1x 12V trigger, RC	TCP/IP , RS232, 1x 12V trigger, RC
XPort™ expandable I/O	–	–
ProNet compatible	yes	yes

general

weight	about 3.0 kg	about 3.0 kg
dimensions in mm (d w h)	234 x 278 x 94	234 x 278 x 94
standard limited warranty	2 years	2 years
24 / 7 operation coverage (conditions apply)	yes	yes
optional extended warranty (conditions apply)	up to 3 years extended (total warranty period 5 years)	up to 3 years extended (total warranty period 5 years)
lamp warranty	500 hours or 90 days, whichever comes first	500 hours or 90 days, whichever comes first
availability	now	now



F22 wuxga



F12 sx+



F12 1080



F12 wuxga

single chip DLP® technology with BrilliantColor™		single chip DLP® technology with BrilliantColor™		single chip DLP® technology with BrilliantColor™		single chip DLP® technology with BrilliantColor™	
small size professional projector with lens shift		high contrast, fixed offset professional projector for scientific visualisation and simulation		high contrast, fixed offset professional projector for scientific visualisation and simulation		high contrast, fixed offset professional projector for scientific visualisation and simulation	
1920 x 1200		1400 x 1050		1920 x 1080		1920 x 1200	
1920 x 1200		1920 x 1200		1920 x 1200		1920 x 1200	
16 : 10		4 : 3		16 : 9		16 : 10	
VizSim / Graphics / High Brightness		VizSim / Graphics / High Brightness		VizSim / Graphics / High Brightness		VizSim / Graphics / High Brightness	
–		–		–		–	
1400 / 2000 / 2700		2000 / 2600 / 3900 (300W) 1500 / 2000 / 2900 (220W)		1800 / 2400 / 3500 (300W) 1400 / 1800 / 2600 (220W)		1800 / 2400 / 3500 (300W) 1400 / 1800 / 2600 (220W)	
tba		yes		yes		yes	
up to 2500 : 1		up to 2500 : 1		up to 3000 : 1		up to 4000 : 1	
0.74 : 1		–		–		–	
0.92 : 1		1.03 : 1		0.95 : 1		0.95 : 1	
–		–		–		–	
1.60 - 2.21 : 1		1.70 - 2.20 : 1		1.60 - 2.00 : 1		1.60 - 2.00 : 1	
2.70 - 4.20 : 1		–		–		–	
–		–		–		–	
manual zoom and focus, vertical lens shift		manual zoom and focus		manual zoom and focus		manual zoom and focus	
vertical: 0 - 104% with zoom lenses 0 - 80% with wide angle lenses		vertical: 110% fixed		vertical: 110% or 124% fixed		vertical: 110% or 118% fixed	
220W VIDI UHP™		220W or 300W VIDI UHP™		220W or 300W VIDI UHP™		220W or 300W VIDI UHP™	
2250 / 3000 hrs		2250 / 3000 or 2000 / 2500 hrs		2250 / 3000 or 2000 / 2500 hrs		2250 / 3000 or 2000 / 2500 hrs	
HDMI 1.3, DVI-I, VGA		HDMI, DVI-D, 2x VGA		HDMI, DVI-D, 2x VGA		HDMI, DVI-D, 2x VGA	
HDMI 1.3, component, S-video, composite		HDMI 1.3, component, S-video, composite		HDMI 1.3, component, S-video, composite		HDMI 1.3, component, S-video, composite	
TCP/IP , RS232, 1x 12V trigger, RC		TCP/IP , RS232, 2x 12V trigger, RC		TCP/IP , RS232, 2x 12V trigger, RC		TCP/IP , RS232, 2x 12V trigger, RC	
–		–		–		–	
yes		yes		yes		yes	
about 3.0 kg		<3.5 kg		<3.5 kg		<3.5 kg	
234 x 278 x 94		278 x 278 x 110		268 x 300 x 104		268 x 300 x 104	
2 years		2 years		2 years		2 years	
yes		yes		yes		yes	
up to 3 years extended (total warranty period 5 years)		up to 3 years extended (total warranty period 5 years)		up to 3 years extended (total warranty period 5 years)		up to 3 years extended (total warranty period 5 years)	
500 hours or 90 days, whichever comes first		500 hours or 90 days, whichever comes first		500 hours or 90 days, whichever comes first		500 hours or 90 days, whichever comes first	
now		now		now		now	



	F32 sx+	F32 1080	F32 wuxga	FL32 1080
technology	single chip, dual lamp DLP® technology with BrilliantColor™		single chip, dual lamp DLP® technology with BrilliantColor™	
professional projector simulation	fail safe high resolution professional projector with full lens shift and hot swap lamp modules		fail safe high resolution professional projector with full lens shift and hot swap lamp modules	
	1400 x 1050		1920 x 1200	
	1920 x 1200		1920 x 1200	
	4 : 3		16 : 10	
brightness	VizSim / Graphics / High Brightness		VizSim / Graphics / High Brightness	
	-		-	
power (W) power (W)	3100 / 4100 / 7500 ¹⁾		2900 / 3800 / 6800 ¹⁾	
	yes		yes	
	up to 7500 : 1		up to 7500 : 1	
	0.84 : 1		0.79 : 1	
	1.25 : 1		1.16 : 1	
	1.34 - 1.74 : 1		1.24 - 1.60 : 1	
	1.74 - 2.51 : 1		1.60 - 2.32 : 1	
	2.56 - 4.10 : 1		2.37 - 3.79 : 1	
	4.10 - 7.10 : 1		3.80 - 6.50 : 1	
features	motorized zoom and focus, vertical and horizontal shift		motorized zoom and focus, vertical and horizontal shift	
vertical shift	vertical: ± 110% horizontal: ± 90%		vertical: ± 117% horizontal: ± 84%	
lamp life (hrs)	300W VIDI UHP™ (2x)		300W VIDI UHP™ (2x)	
	2000 / 2500 (5000 in relay mode) hrs		2000 / 2500 (5000 in relay mode) hrs	
	HDMI, DVI-D, VGA, BNC		HDMI, DVI-D, VGA, BNC	
	HDMI 1.3, component, S-video, composite		HDMI 1.3, component, S-video, composite	
remote control, RC	TCP/IP , RS232, 2x 12V trigger, RC		TCP/IP , RS232, 2x 12V trigger, RC	
	yes, 2x		yes, 2x	
	yes		yes	
	12.6 kg (excluding lens)		12.6 kg (excluding lens)	
	375 x 507 x 218		375 x 507 x 218	
	2 years		2 years	
	yes		yes	
warranty period (5 years)	up to 3 years extended (total warranty period 5 years)		up to 3 years extended (total warranty period 5 years)	
	500 hours or 90 days, whichever comes first		500 hours or 90 days, whichever comes first	
	now		now	
	¹⁾ Centre lumens		¹⁾ Centre lumens	



FL32 wuxga



F80 1080



F80 wuxga

DLP® projector with ReaLED™ illumination technology	single chip DLP® projector with ReaLED™ LED illumination technology	3-chip, dual lamp DLP® technology with adaptive contrast adjustment	3-chip, dual lamp DLP® technology with adaptive contrast adjustment
on projector for 24/7 operation, or urate colour displays	LED based high resolution projector for 24/7 operation, or highly accurate colour displays	fail safe high resolution professional projector with full lens shift and two lamps modules	fail safe high resolution professional projector with full lens shift and two lamps modules
1920 x 1080	1920 x 1200	1920 x 1080	1920 x 1200
1920 x 1200	1920 x 1200	1920 x 1200	1920 x 1200
16 : 9	16 : 10	16 : 9	16 : 10
files: VizSim, High Brightness	user selectable profiles: VizSim, High Brightness	–	–
–	–	REC709 (motorized)	REC709 (motorized)
up to 750	up to 750	8000	8500
–	–	tbc.	tbc.
is zero, up to 7500 : 1 corrected	infinite when input level is zero, up to 7500 : 1 corrected	>15000 : 1 (automatically adaptive)	>15000 : 1 (automatically adaptive)
0.79 : 1	0.79 : 1	0.74 : 1	0.74 : 1
1.16 : 1	1.16 : 1	–	–
1.24 - 1.60 : 1	1.24 - 1.60 : 1	1.20 - 1.70 : 1	1.20 - 1.70 : 1
1.60 - 2.32 : 1	1.60 - 2.32 : 1	1.70 - 2.55 : 1	1.70 - 2.55 : 1
2.37 - 3.79 : 1	2.37 - 3.79 : 1	2.50 - 4.00 : 1	2.50 - 4.00 : 1
3.80 - 6.50 : 1	3.80 - 6.50 : 1	3.90 - 6.24 : 1	3.90 - 6.24 : 1
motorized zoom and focus, and horizontal shift	motorized zoom and focus, vertical and horizontal shift	motorized zoom and focus, vertical and horizontal shift	motorized zoom and focus, vertical and horizontal shift
vertical: ± 125% horizontal: ± 84%	vertical: ± 117% horizontal: ± 84%	vertical: ± 124% horizontal: ± 89%	vertical: +117% horizontal: ±84%
illumination with PhlatLight LEDs	ReaLED™ illumination with PhlatLight LEDs	330W VIDU UHP™ (2x)	330W VIDU UHP™ (2x)
hours (typical expected)	up to 100.000 hours (typical expected)	1700 / 2000 (4000 in relay mode) hrs	1700 / 2000 (4000 in relay mode) hrs
DVI-D, VGA, BNC	HDMI, DVI-D, VGA, BNC	HDMI, DVI-D, VGA, BNC	HDMI, DVI-D, VGA, BNC
1.3, component, S-video, composite	HDMI 1.3, component, S-video, composite	HDMI 1.3, component, S-video, composite	HDMI 1.3, component, S-video, composite
232, 2x 12V trigger, RC	TCP/IP , RS232, 2x 12V trigger, RC	TCP/IP , RS232, 2x 12V trigger, RC	TCP/IP , RS232, 2x 12V trigger, RC
yes, 2x	yes, 2x	yes, 2x	yes, 2x
yes	yes	yes	yes
(excluding lens)	14 kg (excluding lens)	26 kg (excluding lens)	26 kg (excluding lens)
5 x 507 x 218	375 x 507 x 218	603 x 505 x 250	603 x 505 x 250
2 years	2 years	2 years	2 years
yes	yes	yes	yes
d (total warranty period 5 years)	up to 3 years extended (total warranty period 5 years)	up to 3 years extended (total warranty period 5 years)	up to 3 years extended (total warranty period 5 years)
tba.	tba.	500 hours or 90 days, whichever comes first	500 hours or 90 days, whichever comes first
now	now	now	now

unique features

RealColor colour management



RealColor is projectiondesign's implementation of an accurate colour management system for projectors. It allows simple and easy calibration and set up of projectors to desired white point and grey scale tracking with a minimum amount of effort. RealColor works by giving access to necessary colour management adjustments, and by having the projector accurately characterised at the factory before it is shipped.

Colour matching



Optical colour matching is available with all our professional series projectors. When two or more colour matched projectors are specified, we make sure that lamps and optics are within close range of each other chromatically. That means that measured and visible colour coordinates are matched, so that projectors can be set up side by side and still entirely similar. Colour matched projectors rely only in fine tuning with RealColor colour management for matching.

24/7 operation guarantee



All our professional series projectors are available with limited 2-year, full 24/7 operation warranties. 3 to 5 years extension plans are available. The only requirements are that pre-emptive maintenance plans are followed. The maintenance plans take into account replacement of parts that wear out, such as mechanical fans and colour wheels. An incredibly low cost of ownership is secured through the use of completely filterless designs.

Sealed optical architecture



In order to provide low cost of operation projectors, all projector series are delivered with a Sealed Optical Architecture that does not allow any dust or smoke to enter the core optics, and interfere with the image quality. By preventing dust and smoke from entering the most delicate optics, a long and trouble free service is ensured.

DuArch™ – Dual Architecture Illumination



All our larger high brightness projectors that feature dual lamp systems feature our patented DuArch™ Dual Illumination Architecture system. Higher efficiency results in improved brightness, and a proven failsafe system that allows you to replace lamps while the projector is still running. Avoid downtime, secure your investment with projectiondesign projectors.

Software and hardware customisation



Projectors that are subject to special applications, graphics and video format displays, or installation requirements, may for various reasons require to have certain aspects customised or adapted. It is a projectiondesign tradition, and unique feature, to make possible these types of alterations to both software and firmware, electronics, and optics systems.

technologies

DLP® technology



DLP technology from Texas Instruments® is used in all projectiondesign projectors. With its unrivalled reliability, with no visible image or device degradation over time, it allows the design of compact high quality projectors, and accurate image reproduction.

AMX Device Discovery



AMX Device Discovery greatly simplifies set up and integration into control and management systems. Projectors can be effortlessly connected to AMX gear, and instantly allow control and management, as all communication is pre-loaded in the system. Additionally, modules are automatically updated when or if they are updated!

Certified Crestron Integrated Partner



Certified Crestron Integrated Partner enabled products enable quick and simple integration with Crestron control and management systems. Greatly reducing needs for device specific programming and set up reduces installation complexity and costs, and secures manufacturer support in all installations.



VIDI UHP™ lamps

The VIDI technology lamps increase colour and grey scale accuracy, as well as increasing the maximum colour bit-depth and contrast in the projected image. As a variant of UHP™ lamp technology, it brings the outstanding reliability, performance, and low total cost of ownership one step further.

ReaLED™ technology



ReaLED is projectiondesign's implementation of LED illumination in projectors. With an extremely long life time expectancy, almost no visible change over its entire lifetime, and a very wide and comprehensive colour spectrum and gamut, it is perfect choice for those looking for the ultimate reliability or colour performance.

ProNet.Manager



projectiondesign ProNet.Manager is a fully scalable network asset management software solution that enables status monitoring and control over any number of projectiondesign projectors, using standard IP network (LAN/WAN) or RS232 communication. ProNet management is available as an enterprise reporting tool, ProNet enterprise, or as a local status monitoring and control tool, ProNet.site.

optical colour processing options

Wide range of colour wheel and filter options



Unique to projectiondesign is configurability of optical components that permit tailoring projectors to specific applications – for instance scientific visualisation, simulation, general graphics, or even high brightness displays. Common to all projectiondesign projector users is that image quality, accuracy, and repetitiveness are key components of the display characteristics. Depending on platform and projector model, we offer a range of colour wheels or optical filters, motorised and fixed, to tailor colour performance and image performance. Specifically, for nearly all single chip projectors, we offer a range of three different colour wheels; VizSim, Graphics, or High Brightness. The VizSim colour wheel features primary colours only (RGB), and a larger colour gamut than the Graphics and High Brightness variants. The Graphics features 6-colour processing, RGB-CMY, and the High Brightness features 5+1 colour processing, RGB-CYW, where the W is a clear segment for higher brightness. At the same time, our 3-chip DLP models all come with a variety of optical filters *per channel*. Not only a single, yellow notch filter, but instead a complete set of filters for Red, Green and Blue channels. Enabling full optical colour processing, this provides tailoring of gamut and colours without electronically affecting bit-depth and image dynamic range. Filter sets include REC709, and P3 colour space compliant colours.

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